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ASTM F893-2005: Standard Guide for Inspection of Amusement Rides and Devices as required by:
Commonwealth of Virginia, 13 VAC 5-31-40(A)(2)
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Standard Guide for Inspection of Amusement Rides and Devices[1]

This standard is issued under the fixed designation F 893; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This guide covers the inspections of amusement rides and devices during prototype development, production manufacturing, installation or erection, following major modification or overhaul, and during operation and maintenance periods.

NOTE 1—For information related to this guide, see Specification F 698, Terminology F 747, and Guide F 846.

1.2 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 *ASTM Standards:* [2]

F 698 Specification for Physical Information to be Provided for Amusement Rides and Devices

F 747 Terminology Relating to Amusement Rides and Devices

F 770 Practice for Operation Procedures for Amusement Rides and Devices

F 846 Guide for Testing Performance of Amusement Rides and Devices

F 853 Practice for Maintenance Procedures for Amusement Rides and Devices

F 1193 Practice for Amusement Ride and Device Manufacturer Quality Assurance Program and Manufacturing Requirements

3. Terminology

3.1 *Definition:*

3.1.1 *inspector*—a person who, through education, experience, and training, is able to properly evaluate an amusement ride or device to determine its conformance, within the scope of the inspection, with ASTM Committee F24 Standards.

4. Significance and Use

4.1 The purpose of this guide is to delineate information and recommend inspections for amusement rides and devices.

4.2 Inspection within the context of this guide is to determine conformance with applicable ASTM Committee F24 standards.

5. Inspection Program

5.1 *Manufacturer's Responsibility*:

5.1.1 The manufacturer of an amusement ride or device shall have a written quality assurance program as specified in Practice F 1193 for use in conjunction with the design, manufacture, construction, modification, or reconditioning of the amusement ride or device.

5.1.2 Quality assurance documents, that is, material certifications, test reports, and inspection reports, shall be retained for a period of time as deemed appropriate by the manufacturers.

5.1.3 The manufacturer of an amusement ride or device shall provide the owner/operator with a written inspection procedure to be delivered with the ride or device. The document shall outline the inspections as contained in Practice F 853 and Practice F 770.

5.1.3.1 Any changes in the procedure prescribed in 5.1.3 deemed essential by the manufacturer due to information not available to the manufacturer at the time of delivery shall be communicated to all known owner/operators.

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[1] This guide is under the jurisdiction of ASTM Committee F24 on Amusement Rides and Devices and is the direct responsibility of Subcommittee F24.30 on Maintenance and Inspection.

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[2] For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

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5.1.4 All inspections, whether recommended at the time of sale or subsequently, shall meet the following criteria:

5.1.4.1 Inspections are such that shall have been satisfactorily performed by the manufacturer.

5.1.4.2 Inspections are ones in which the ride or device or element can reasonably be expected to pass during the expected design life of the ride, device or element, assuming that recommended maintenance procedures have been followed; and,

5.1.4.3 Inspections are reasonable and are such that the owner/operator can reasonably be expected to be competent to perform or cause to be performed.

5.1.5 Upon notification from an owner/operator of an incident involving a critical component, the manufacturer of an amusement ride or device shall promptly evaluate this information and disseminate his findings to the original owner/operator along with any pertinent recommendations to all known owner/operators.

5.2 *Owner/Operator Responsibilities*:

5.2.1 Owner/operators of amusement rides or devices shall have an inspection program consistent with the inspections outlined in Practices F 770 and F 853.

5.2.2 Inspection documents deemed appropriate by the owner/operator to be maintained in the ride file shall be filed in accordance with the procedures outlined in Practices F 770 and F 853.

5.2.3 The owner/operator of an amusement ride or device shall promptly notify the manufacturer of an incident, failure, or malfunction which, in his judgment, seriously affects the continued proper operation of the ride or device and is information of which the manufacturer should be aware.

5.3 *Inspector Responsibilities*:

5.3.1 Perform inspections complying with all appropriate safety procedures.

5.3.2 Use inspection tools, test equipment, gages, or other devices as required by the inspection. Such tools, test equipment, gages, or other devices shall be in proper working order, and if applicable, accurately calibrated.

5.3.3 Notify the owner/operator of the amusement ride or device of any non-conformance identified within the scope of the inspection.

5.3.4 Provide upon owner/operator's request written documentation of inspection activities.

6. Keywords

6.1 inspection; inspector

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